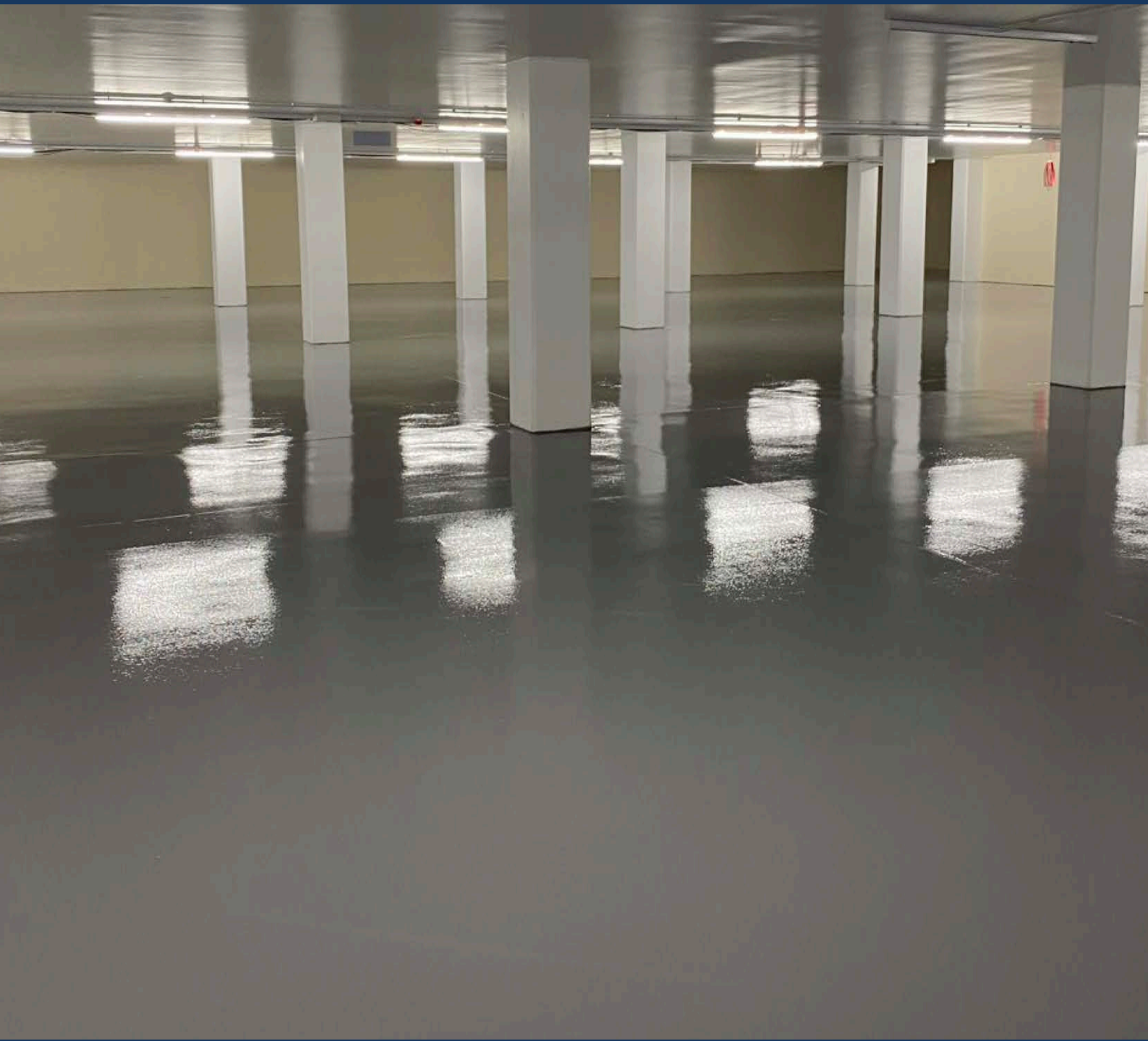




RESIN FLOORING  
SOLUTIONS



## Industrial & Commercial Systems

- Hygienic & Cleanable
- Heavy Duty
- Anti-Bacterial
- Chemical Resistant
- Slip Resistant
- Food Production
- Pharmaceutical
- Retail
- Storage Facilities
- Civil & Public



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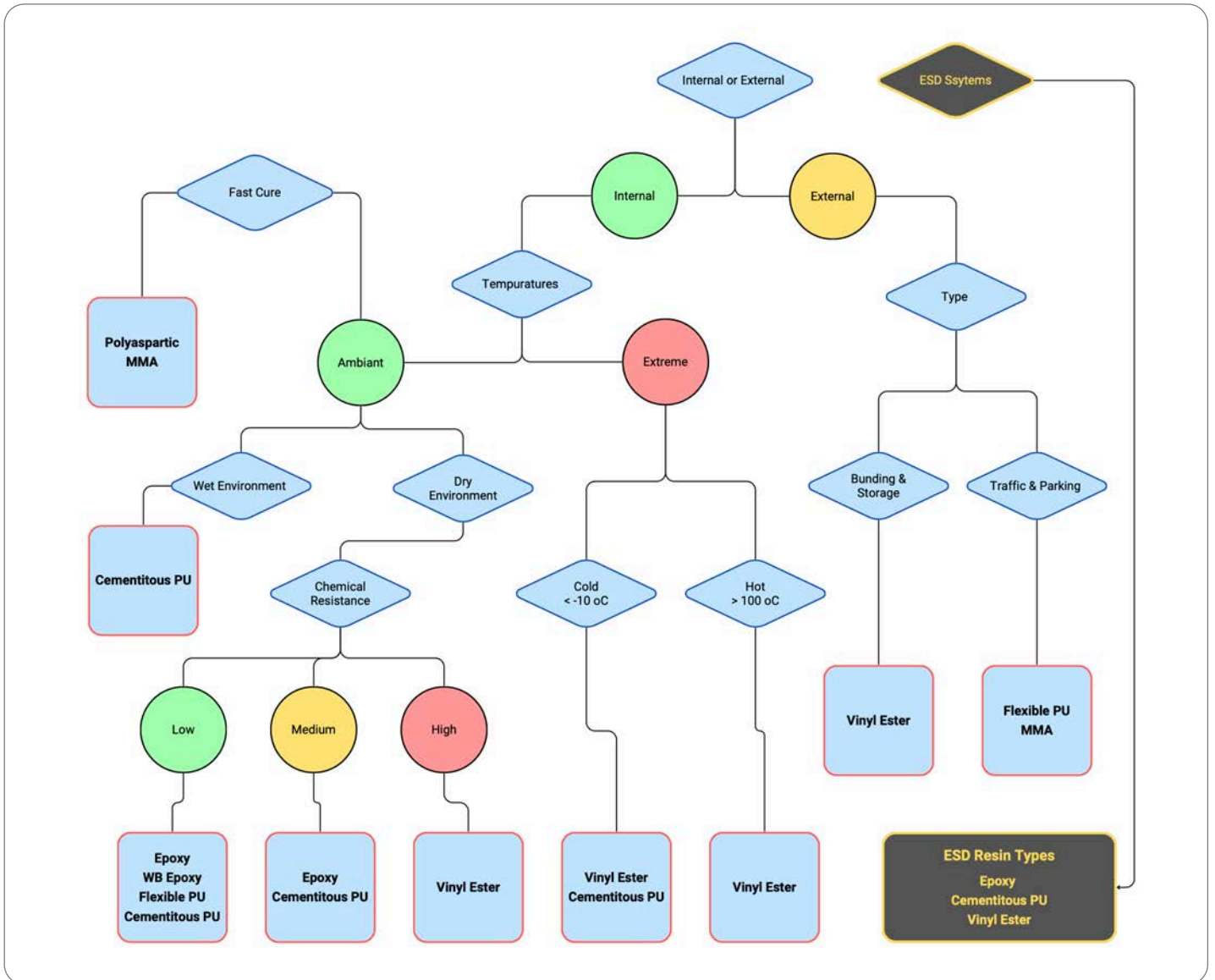
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# System Selector

	Epoxy HB Coating <1mm	Epoxy Self Smoothing 3mm	Epoxy Decorative Flake >3mm	Epoxy HD Decorative Screed > 5mm	Epoxy HD Industrial Screed > 5mm	Flexible PU Self Smoothing	Multilayer Flexible PU	Cementitious PU Self Smoothing Compound	Cementitious PU HD Screed >6mm	Vinyl Ester Fiber Glass Lining 2mm~	Epoxy ESD Systems <1 - >3mm	Vinyl Ester ESD Systems 2mm~	Stelcon Metal Tiles
Corridors & Offices		●	●	●		●							
Wet Rooms			●	●									
Pedestrian Routes	●												
Fork Truck Routes		●											
General Dry Production	●	●		●	●								
General Wet Production								●	●				
General Storage / Warehousing	●	●											
Plant Rooms	●												
Corrosive Chemical Containment / Bunding										●			
Flammable Containment / Bunding											●	●	
Corrosive Flammable Containment / Bunding												●	
ATEX Environments											●	●	
Pharmaceutical Production		●	●	●									
Laboratories		●	●	●		●							
Commercial Kitchens				●				●	●				
Wet Food Production: Meats, Vegetables and Drinks									●				
Dry Food Production: Bakeries				●	●			●	●				
Ultra Heavy-Duty Environments													●
Car Parks and Heavy Traffic							●						

● = Ideal for this use   ● = Slip resistant profile available   ● = With slip resistant profile

# Resin Type Calculator



# Duty Type Calculator

$Load \times Frequency = Duty$

**1 Low Load**

- Pedestrian Traffic
- Wheeled Traffic up to 500kg

**2 Medium Load**

- Above +
- Wheeled Traffic up to 2,000kg

**3 Heavy Load**

- Above
- Wheeled Traffic up to 3,500kg

**1 Low Frequency**

- Light Foot Traffic
- Occasional Wheeled Traffic

**2 Medium Frequency**

- Regular Foot Traffic
- Frequent Wheeled Traffic

**3 High Frequency**

- Above +
- Constant Wheel Traffic



Light duty

- 0.1mm Film Sealers
- <0.5mm Resin Coatings
- <1mm High Build Coatings

1-2



Medium Duty

- Flow Applied 3mm
- <5mm Screeds
- Multi Layer Coatings

3-4



Heavy Duty

- >5mm Resin Screeds
- >10mm Resin Screeds

6-9

# How We Work

## About Us

We are a family run resin flooring contractors based in Colchester Essex but we operate throughout the UK.

We offer a comprehensive start to finish service including consultation and specifications, survey, supply and install.

We own and maintain our own fleet of surface preparation equipment and perform all surface preparation using our own staff.

We work with the four key suppliers and hold accounts with all major Resin Flooring manufacturers.



## Site Safety

### Staff knowledge and competence

We train staff in the safe use of our equipment and machinery as well further competency training and assessment.

### Safe equipment and Machinery

We firstly ensure all our equipment is the correct tool for the job, we secondly assess and record the condition of our equipment to keep it maintained and safe.

### Assessment of Risk

We carry out two risk assessments, the first is a full and continually updated assessment of our processes and installation methods. The second is a site risk assessment, sometimes called the dynamic risk assessment.



## Vacuum Assisted Floor Grinding



Vacuum Assisted Mixing

## M Class Dust Extraction



# Surface Preparation

Diamond Grinding | Shoot Blasting | Planning & Profiling | Level Reduction | Surface Removal

## Preparation is Key

Resin floors are only as good as their bond to the substrate beneath. At Resin Flooring Solutions we prepare our floors using our own operators and equipment. This not only ensures quality but allows the opportunity to catch any problem areas early or previously hidden features such as over laid joints. All of our equipment is vacuum assisted allowing us to work to in sensitive environments such as pharmaceutical and food production facilities without concern.



## Surface Preparation Services

### **Diamond Grinding:**

Concrete or resin based surfaces to achieve a mechanical key for new applications.

### **Coatings Removal:**

Removal of water based and resin based coating can be achieved by diamond grinding.

### **Surface Level Reduction:**

Demolition and removal of existing screeds and flooring.

### **Planning & Profiling:**

Reduction of concrete substrates and retexturing.

### **Adhesive & Latex Removal:**

Specialist diamond grinding for removal of bonded adhesive compounds

### **Vinyl Up Lift:**

Specialty stripping methods and equipment for removal of Vinyl and Tiles

### **Shot Blasting:**

Concrete or resin based surfaces to achieve a mechanical key for new applications.

Contact us at: [sales@resinflooringsolutions.com](mailto:sales@resinflooringsolutions.com) for more information



# Epoxy High Build Coatings <1mm

Fast Application | Low Cost | Easily Cleaned | Medium Durability | Slip Resistance Available

## About Epoxy HB

Epoxy High Build Coatings make up the majority of resin flooring installed due to their versatility, low cost and installation speed. Ideal for large open areas, light duty and general production areas. Resin coatings provide seamless and cleanable surfaces on new & existing concrete as well as a range of other substrates.

Aggregate can be bonded between coats to provide a slip resistant surface. Resin Coatings can also be used for demarcations over other resin flooring systems.



## Coating Types

- DPM Based
- Slip Resistant
- ESD (Anti Static)
- Moisture Permeable
- Chemical Resistant
- Fast Curing

## General Data

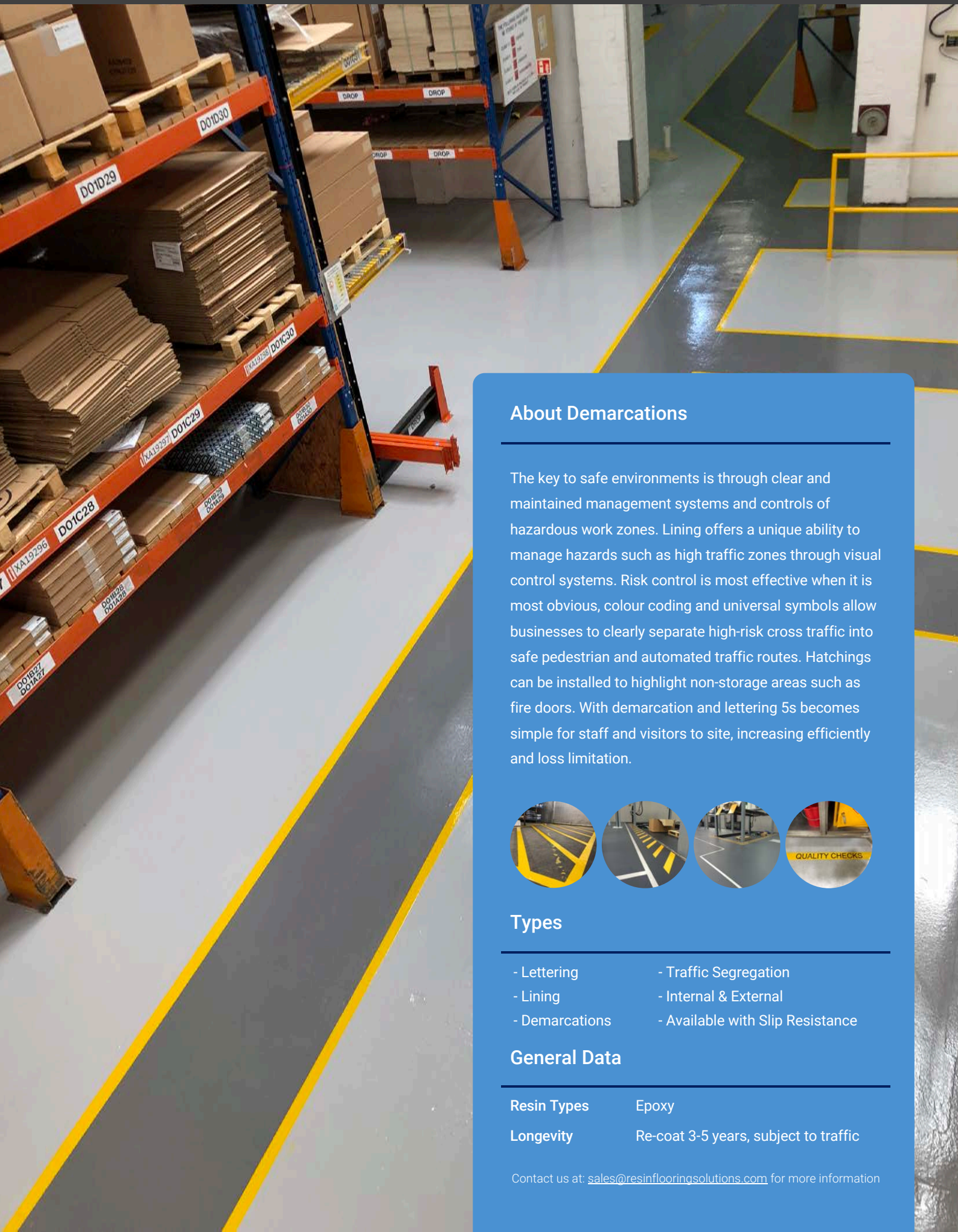
Thickness	Two coats approx. 0.3-1.0mm
Traffic & Duty	Light Duty
Longevity	Re-coat 3-5 years, subject to traffic

Contact us at: [sales@resinflooringsolutions.com](mailto:sales@resinflooringsolutions.com) for more information



# Lining & Demarcations

Lettering Available for 5s Systems | Visual Traffic and Zone Control | Good Wear Resistance



## About Demarcations

The key to safe environments is through clear and maintained management systems and controls of hazardous work zones. Lining offers a unique ability to manage hazards such as high traffic zones through visual control systems. Risk control is most effective when it is most obvious, colour coding and universal symbols allow businesses to clearly separate high-risk cross traffic into safe pedestrian and automated traffic routes. Hatchings can be installed to highlight non-storage areas such as fire doors. With demarcation and lettering 5s becomes simple for staff and visitors to site, increasing efficiency and loss limitation.



## Types

- Lettering
- Lining
- Demarcations
- Traffic Segregation
- Internal & External
- Available with Slip Resistance

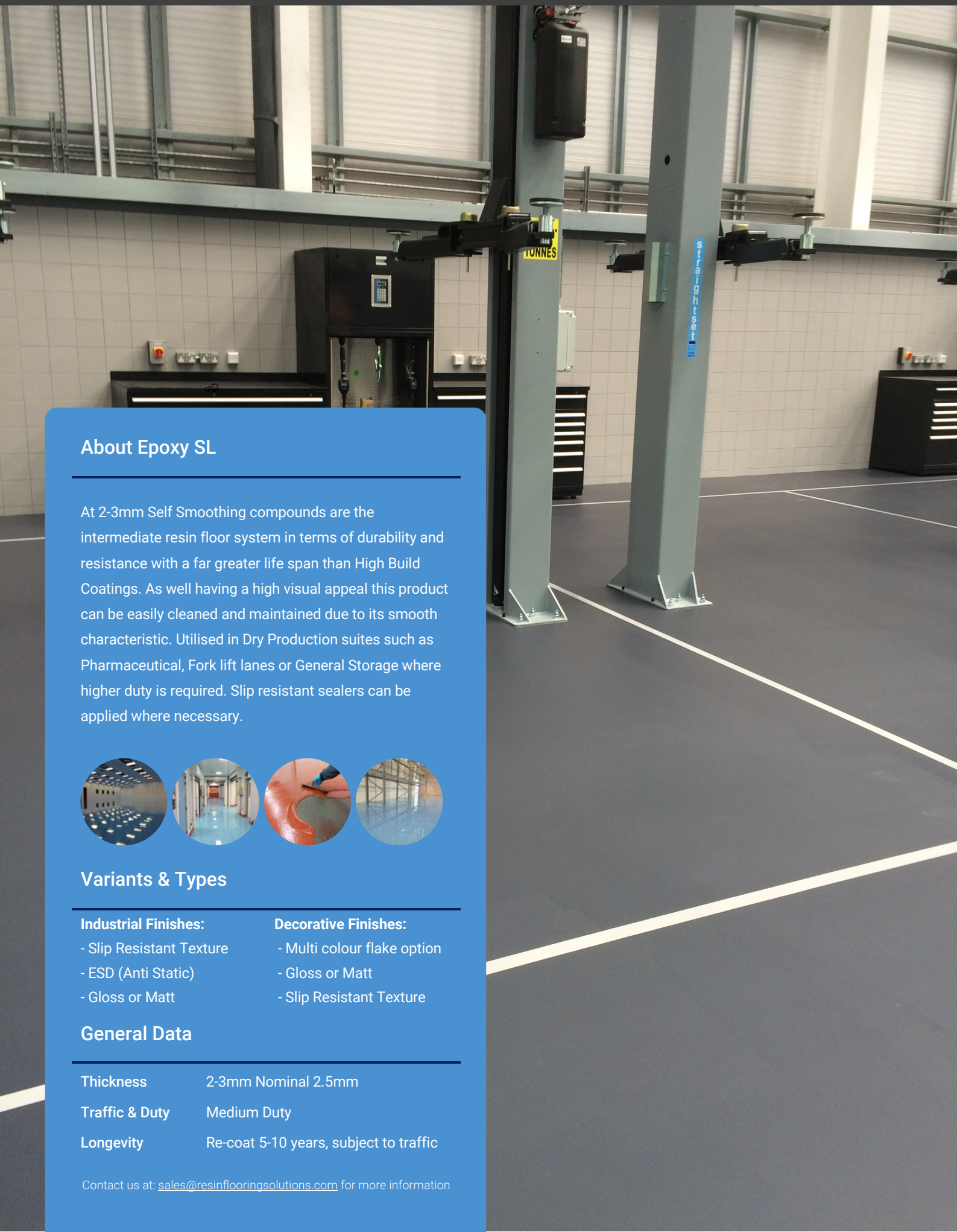
## General Data

Resin Types	Epoxy
Longevity	Re-coat 3-5 years, subject to traffic

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# Epoxy Self-Smoothing Compounds (SL) 2-3mm

Fast Application Rate | High Visual Appeal | High Durability | Ideal for Dry Ultra clean Environments



## About Epoxy SL

At 2-3mm Self Smoothing compounds are the intermediate resin floor system in terms of durability and resistance with a far greater life span than High Build Coatings. As well having a high visual appeal this product can be easily cleaned and maintained due to its smooth characteristic. Utilised in Dry Production suites such as Pharmaceutical, Fork lift lanes or General Storage where higher duty is required. Slip resistant sealers can be applied where necessary.



## Variants & Types

### Industrial Finishes:

- Slip Resistant Texture
- ESD (Anti Static)
- Gloss or Matt

### Decorative Finishes:

- Multi colour flake option
- Gloss or Matt
- Slip Resistant Texture

## General Data

Thickness	2-3mm Nominal 2.5mm
Traffic & Duty	Medium Duty
Longevity	Re-coat 5-10 years, subject to traffic

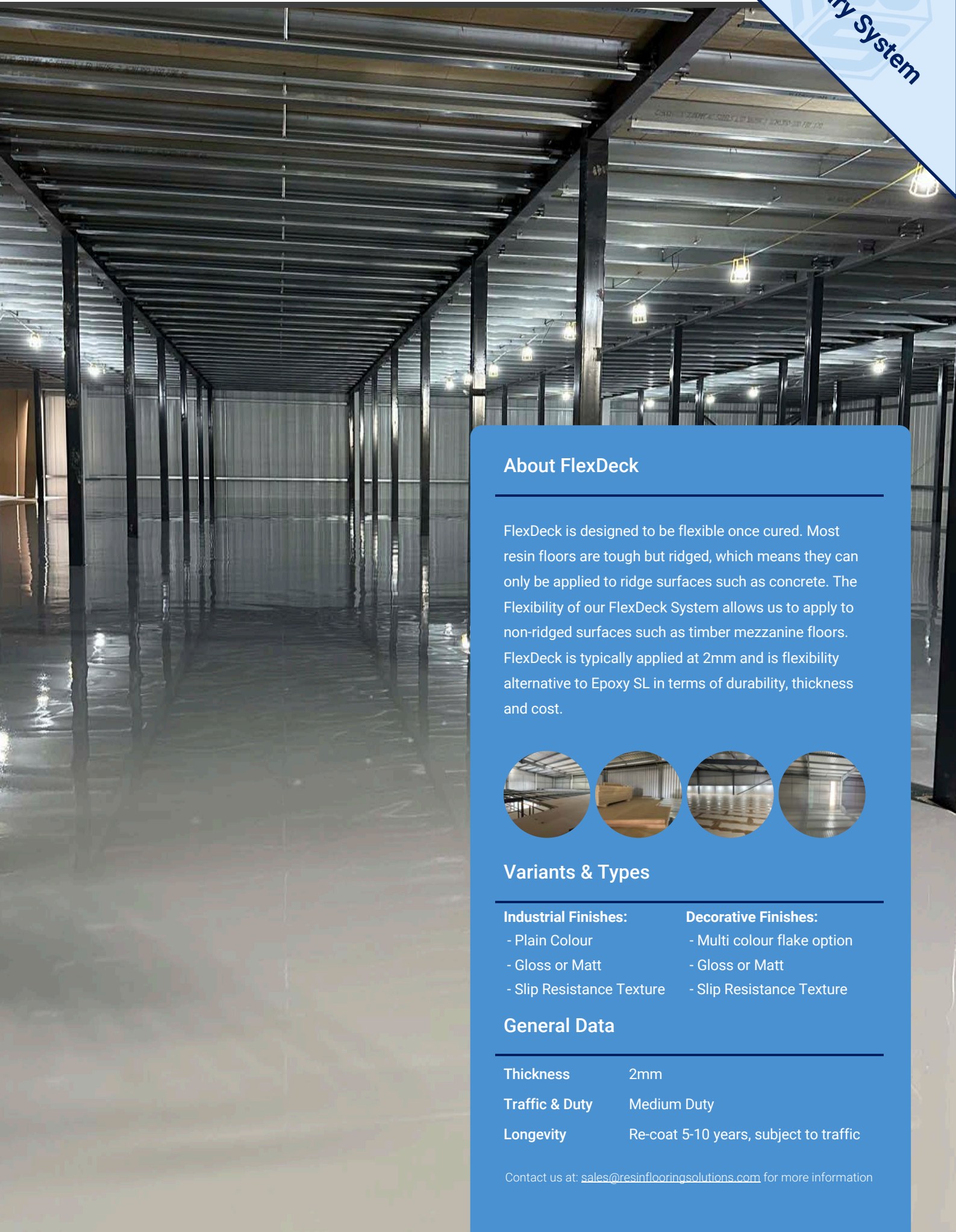
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# FlexDeck 2mm - for Timber Substates

Fast Application Rate | High Visual Appeal | High Flexibility

Proprietary System



## About FlexDeck

FlexDeck is designed to be flexible once cured. Most resin floors are tough but ridged, which means they can only be applied to ridge surfaces such as concrete. The Flexibility of our FlexDeck System allows us to apply to non-ridged surfaces such as timber mezzanine floors. FlexDeck is typically applied at 2mm and is flexibility alternative to Epoxy SL in terms of durability, thickness and cost.



## Variants & Types

### Industrial Finishes:

- Plain Colour
- Gloss or Matt
- Slip Resistance Texture

### Decorative Finishes:

- Multi colour flake option
- Gloss or Matt
- Slip Resistance Texture

## General Data

Thickness	2mm
Traffic & Duty	Medium Duty
Longevity	Re-coat 5-10 years, subject to traffic

Contact us at: [sales@resinflooringsolutions.com](mailto:sales@resinflooringsolutions.com) for more information

# ESD Systems

Epoxy HB ESD | Epoxy SL ESD | Epoxy HD ESD | PU HF ESD | Vinyl Ester RC ESD | Vinyl Ester HD ESD

## About ESD Systems

---

The term ESD refers to Electro Static Dissipation. Flooring surfaces that are classed as ESD allow the dissipation of electrical charges to earth. This prevents the potentially dangerous and damaging discharge of static electrical charges that can occur in a resin or plastic based floor such as Vinyl.

ESD floors are used in Explosive Atmosphere (ATEX) environments where electric sparks from uncontrolled static energy could lead to ignition of the explosive atmosphere.

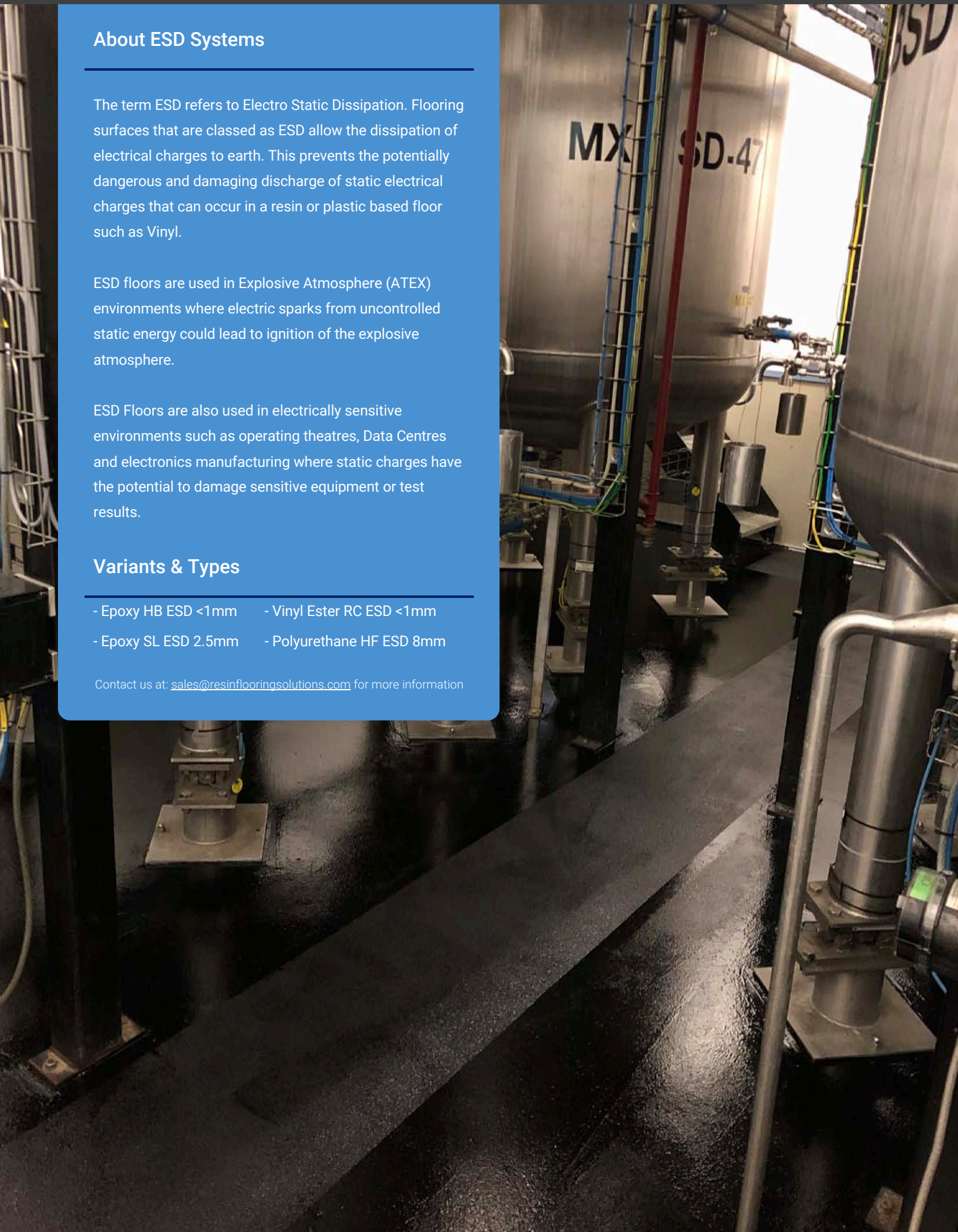
ESD Floors are also used in electrically sensitive environments such as operating theatres, Data Centres and electronics manufacturing where static charges have the potential to damage sensitive equipment or test results.

## Variants & Types

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- Epoxy HB ESD <1mm
- Vinyl Ester RC ESD <1mm
- Epoxy SL ESD 2.5mm
- Polyurethane HF ESD 8mm

Contact us at: [sales@resinflooringsolutions.com](mailto:sales@resinflooringsolutions.com) for more information



# Epoxy HD Screed 6-8mm

Heavy Duty | Good Cleanability | High Durability | Easily Repairable

Proprietary System

## About Epoxy HD

Epoxy HD is an epoxy resin bound screed applied at between 6-8mm and seal with clear resin. HD is most durable epoxy flooring system and is equal to only Polyurethane HF at 6-8mm. This system is designed for higher loads at higher frequencies such as factories. Where Polyurethane HF is ideal in wet production zones, Epoxy HD is ideal for dry production zones such as bakeries or pharmaceutical.

## Variants & Types

### Industrial Finishes Options:

- Plain Colour
- Gloss or Matt
- Slip Resistance Texture

### Decorative Finishes:

- Multi colour option
- Gloss or Matt
- Slip Resistance Texture

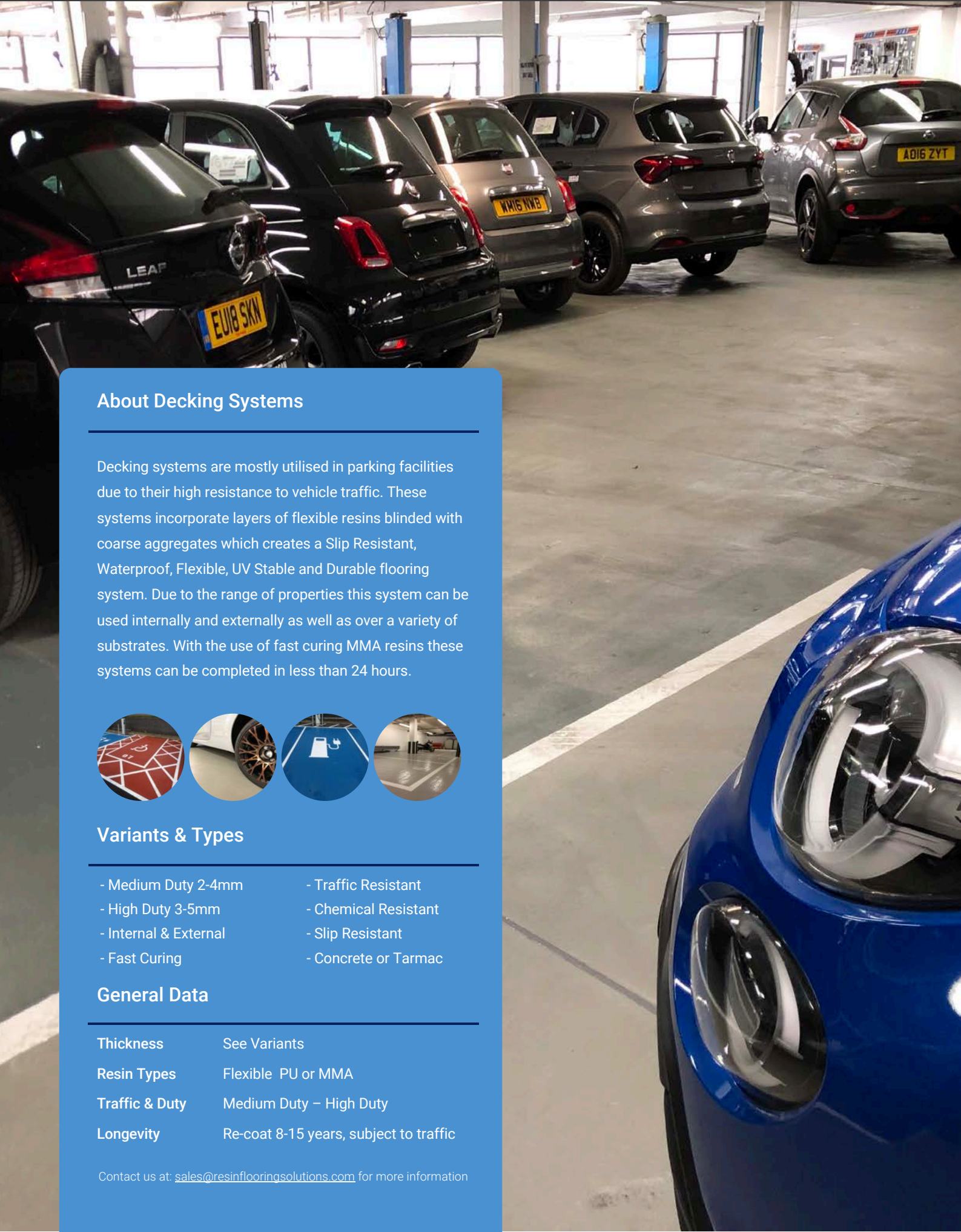
## General Data

Thickness	>6mm
Traffic & Duty	Heavy Duty
Longevity	>10 years, subject to traffic

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# Multi-Layer Coating (Decking Systems) 3-4mm

Fast Application Rate | Slip Resistant | High Durability | Fast Cure | Also for Ramps, Road and Roofs



## About Decking Systems

Decking systems are mostly utilised in parking facilities due to their high resistance to vehicle traffic. These systems incorporate layers of flexible resins blinded with coarse aggregates which creates a Slip Resistant, Waterproof, Flexible, UV Stable and Durable flooring system. Due to the range of properties this system can be used internally and externally as well as over a variety of substrates. With the use of fast curing MMA resins these systems can be completed in less than 24 hours.



## Variants & Types

- Medium Duty 2-4mm
- High Duty 3-5mm
- Internal & External
- Fast Curing
- Traffic Resistant
- Chemical Resistant
- Slip Resistant
- Concrete or Tarmac

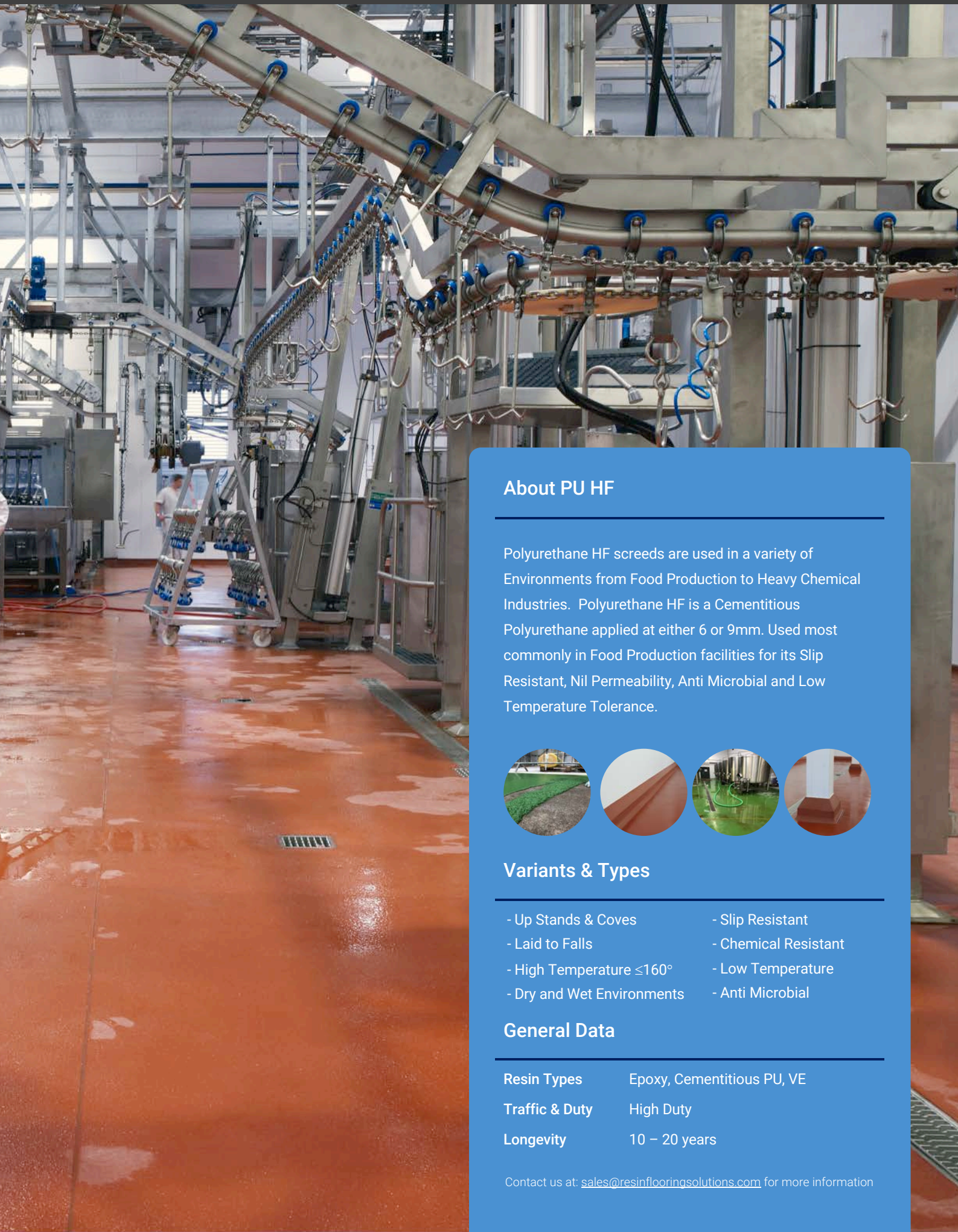
## General Data

Thickness	See Variants
Resin Types	Flexible PU or MMA
Traffic & Duty	Medium Duty – High Duty
Longevity	Re-coat 8-15 years, subject to traffic

Contact us at: [sales@resinflooringsolutions.com](mailto:sales@resinflooringsolutions.com) for more information

# Polyurethane Heavy Duty Screeds (HF) >6mm

Nil Permeability | High Strength | High Durability | Chemical Resistant | Slip Resistant | Anti Microbial



## About PU HF

Polyurethane HF screeds are used in a variety of Environments from Food Production to Heavy Chemical Industries. Polyurethane HF is a Cementitious Polyurethane applied at either 6 or 9mm. Used most commonly in Food Production facilities for its Slip Resistant, Nil Permeability, Anti Microbial and Low Temperature Tolerance.



## Variants & Types

- Up Stands & Coves
- Laid to Falls
- High Temperature  $\leq 160^{\circ}$
- Dry and Wet Environments
- Slip Resistant
- Chemical Resistant
- Low Temperature
- Anti Microbial

## General Data

Resin Types	Epoxy, Cementitious PU, VE
Traffic & Duty	High Duty
Longevity	10 – 20 years

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# Flowable Screeds 6-50mm

Fast Curing | Smooth Finish | High Strength | Pumpable | Surface Leveling | Durable Underlayment

## About Flowable Screeds

Flowable screeds are free flowing, self-consolidating, cementitious water-based screeds that can be batch mixed or pumped directly to the floor. Flowable screeds are used to build up levels, as an underlayment for other toppings or resin surfaces and to make good or improve the strength characteristic of existing substrates. Flowable screeds have a high strength at low thicknesses and fast rate of cure. They can be applied between 6 and 50mm and come in a variety of strength classes.



## Variants & Types

- Underlayment
- Industrial Topping
- 6 – 20mm Thicknesses
- Fast Curing
- Moisture permeable
- 20 – 50mm thicknesses

## General Data

Thickness	See Varieties
Resin Types	Modified Cementitious Screed
Traffic & Duty	Medium - High Duty
Longevity	10 – 20+ years

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# Stelcon Tiles System - EPM 40

3mm Steel Plates | High Abrasion Resistance | Ultra Heavy Duty | High Chemical Resistance

Proprietary System

## About EPM 40

EPM 40 is proprietary installation system comprising of a resin based bedding material and application method for the purpose of installing Stelcon Tiles. This is a unique system that offers performance benefits over tradition concrete based installation.

We manufacture the bedding material and install the system (EMP 40 Bedding Material and Stelcon Tile). We can also supply the Stelcon Tiles.



## Performance benefits

- Reduced carbon foot print: Our material not only has a lower carbon foot print than concrete production but we use 60% less material by volume, 70% by mass.
- Installed at 40mm means there is less people, traffic, and materials on site.
- Fast Track: initial set in 12 hours from laying. Full strength cure in 72 hours.
- Our EPM 40 material naturally has far greater Chemical Resistance than traditional concrete.
- We can tailor chemical resistance specifically to customer requirements.
- Impact force absorption. Reduces force effect on structural building elements.
- Impact noise reduction, absorbs impact noise prevents ringing through building structures.

## General Data

Thickness	40mm
Traffic & Duty	Ultra Heavy Duty
Longevity	40+ years

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## RESIN FLOORING SOLUTIONS UK LIMITED

### Contract installation

Our range is extensive covering industrial, commercial and specialist environments. To see more of what we can do see our website.

For Quotes, Samples and Surveys please contact us on any of the details below.

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